UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,856	12/29/2005	Pentti Karhunen	0365-0642PUS1	7326
	7590 05/31/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747			LEE, BENNY T	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2817	
			NOTIFICATION DATE	DELIVERY MODE
,			05/31/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Application No.	Applicant(s)			
Office Action Summary		10/542,856 KARHUNEN, PENT				
		Examiner	Art Unit	,		
		Benny Lee	2817			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	ith the correspondence addres	S		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication, or period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this commur BANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on	_ . .				
2a)	This action is FINAL . 2b) This action is non-final.					
3)⊠	,					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🖂	4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5)⊠ Claim(s) <u>1,2, 3</u> is/are allowed.					
6)□	☐ Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers		•			
9) 又	The specification is objected to by the Examine	۲.				
	The drawing(s) filed on <u>21 July 2005</u> is/are: a)		cted to by the Examiner.			
,	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attache	d Office Action or form PTO-1	52 .		
Priority ι	under 35 U.S.C. § 119					
12) 又	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
•	⊠ All b) Some * c) None of:			·		
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau	u (PCT Rule 17.2(a)).				
* 5	See the attached detailed Office action for a list	of the certified copies no	t received.	•		
,		a a				
Attachmen	t(s)	1				
	pe of References Cited (PTO-892)		Summary (PTO-413)			
	te of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

Art Unit: 2817

This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: Note that subheading for delineating the different portions of the specification should be provided for clarity of description. Page 1, first full paragraph and page 2, third & fourth full paragraphs, note that reference to "the preamble of Claim 1", the "characterizing portion of Claim 1" and the "characterizing portion of Claim 3" are inappropriate descriptions and should be deleted therefrom. Page 1, penultimate paragraph, note that "the said" should be rewritten as just "the" (i.e. "said" should be deleted). Page 4, first full paragraph, note that "summing unit 5" and "summing amplifier 5" need to be rewritten such as to be of consistent terminology. In the description of "fig. 3", note that a description of what each curve in the graph represents needs to be provided for clarity of description. Appropriate correction is required.

The abstract of the disclosure is objected to because of the following: Note that the reference to the "publication" is inappropriate and should be corrected and note that the reference to "(Figure 2)" is inappropriate and should be deleted. Correction is required. See MPEP § 608.01(b).

In the Drawings:

The drawings are objected to because of the following: In Fig. 1, note that the drawing figure needs to be designated as --PRIOR ART-- for consistency with the specification description. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet,

Application/Control Number: 10/542,856 Page 3

Art Unit: 2817

even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In the Claims:

In claims 1, 3, note that the terminology "the divisions" should be rewritten as just --divisions-- such as to avoid potential antecedent basis problems. Similarly, note that the terminology "the nominal wavelength" has been found objectionable since it has not been associated with a corresponding frequency of any signal. Also, note that --of the other transmission line-- is suggested for consistency in claim terminology.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Ouayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 1, 2; 3 are allowable over the prior art of record since none of the prior art teaches or fairly suggests feeding an antenna array by using two parallel transmission lines, which are (1)

Art Unit: 2817

fed from opposite ends; and (2) having divisions on one of the transmission lines which are smaller than the nominal wavelength while having divisions on the other transmission line which are greater than the nominal wavelength.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McKay discloses plural parallel transmission having plural combined outputs, but does not teach feeding each transmission line from a different end and does not teach different divisions on the respective transmission lines.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.

B. Lee

BENNY T. LEE
PRIMARY EXAMINER
ART UNIT 2817